

L 35575-65

ACCESSION NR: AP4049976

2

their bearing on the behavior of optical potential parameters are discussed: the nonlocality of potential (in this connection the radial form of the Schrödinger equation is derived), the dependence of optical potential on isotopic spin, the effect of Coulomb potential, the effect of the strong coupling of elastic and inelastic scattering channels, and the effect of some other factors associated with the structure of atomic nuclei. Throughout the paper, the literature is extensively cited. Orig. art. has: 4 figures and 48 formulas.

ASSOCIATION: Instytut fizyki Uniwersytetu Jagiellonskiego (Physics institute, Jagiellonian University); Instytut fizyki jadrowej, Krakow (Nuclear physics institute)

SUBMITTED: 00

ENCL: 00 SUB CODE: NP

NO REF SOV: 000

OTHER: 046

Card 2/2

L 58145-65 EWT(n) Pet. DJAAP

ACCESSION NR: AP5002700

P/0047/64/015/006/0631/0649

13

AUTHOR: Grotowski, K.

TITLE: Optical model of the interactions between particles and atomic nuclei.  
Part 2. Universal optical potential

SOURCE: Postepy fizyki, v. 15, no. 6, 1964, 631-649

TOPIC TAGS: optical potential, optical model, atomic nucleus, nuclear scattering,  
Born approximation, neutron scattering, proton scattering, deuteron, Alpha particle

ABSTRACT: This is a survey of the Polish and Western literature dealing with the following subjects: Limitations of the plane-wave Born approximation in solving problems in the field of nuclear scattering reactions, particularly in solving direct-interaction reactions, and its replacement by the distorted-wave Born approximation when the plane waves in the entrance and exit channels become distorted due to scattering of particles by the nuclear and Coulomb potentials. The universal potential for neutron and for proton scattering. The relationship between the real potential well depth and the Coulomb parameters for different proton energies. The universal potential for deuterons and for interactions involv-

Cord 1/2

L 38145-65

ACCESSION NR: AP5002700

ing alpha particles. The optical potential for interactions between tritons and He particles with atomic nuclei. The paper also mentions some experimental results obtained by the Grupa Krakowskiego Cyklotronu (Krakow Cyclotron Group). Orig. art. has: 10 figures, 4 tables and 35 formulas.

ASSOCIATION: Instytut Fizyki Uniwersytetu Jagiellonskiego (Physics Institute, Jagiellonian University); Instytut Fizyki Jadrowej, Krakow (Nuclear Physics Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 039

mlc  
Card 2/2

BUDZANOWSKI, A.; GROTOWSKI, K.; MICEK, S.; NIEWOLNIKZANSKI, H.; SLIZ, J.J.  
STRZALKOWSKI, A.; WOJCIECHOWSKI, H.

Elastic scattering of 24.7 MeV alpha particles. Inst fiz jadr  
report no.347:1-46 My '64.

1. Institute of Nuclear Physics, Krakow and Institute of Physics,  
Jagiellonian University, Krakow.

BUDZANOWSKI, A.; GRUTOWSKI, K.; JARZYSK, L.; LAZARSKA, R.; MICEK, S.,  
NIEWODNICZANSKI, H.; STRZALKOWSKI, A.; WRÓBEL, Z.

Energy dependence of the elastic scattering of alpha particles  
on  $^{40}\text{Ca}$  nuclei up to  $1^{\circ}9^{\circ}$ . Inst fiz jadr repert no.40;1-20  
'65.

1. Institute of Nuclear Physics, Krakow, and Institute of Physics  
of the Jagiellonian University, Krakow.

MISHARIN, A.P.; FILENIUS, V.A.; TEREKHOVA, A.L.; GROTSKIY, M.R.; GOLENYAK, L.L.;  
KRUOKER, I.M., professor, direktor.

Remote results of the intra-tonsillar method of therapy in chronic tonsillitis  
and atrophic rhinopharyngolaryngitis. Vest.oto-rin. 15 no.5:48-52 S-0 '53.  
(MLRA 6:11)

1. Klinika bolezney ukha, gorla i nosa Irkutskogo meditsinskogo instituta.  
(Tonsils--Diseases) (Larynx--Diseases)

KROLOPP, Włodzimierz, mgr. inż.; GROTT, Andrzej

Methods and measuring devices with capacity detectors for  
measurements of the relative humidity. Przegl. papier 18  
no. 7:222-225 J1 '62.

1. Centralne Biuro Techniczne Przemysłu Papierniczego. Łódź.

GROTT, Andrzej; KROLOPP, Włodzimierz, mgr.inz.

Humidity measurements with the application of the variable  
resistance-sensing device.Pt.2. Przegl papier 18 no.3:77-  
82 Mr '62.

1. Centralne Biuro Techniczne Przemyslu Papierniczego, Łódź.

Country : POLAND  
CATEGORY : General Biology.  
General Histology.  
ABS. JOUR. : RZBiol., No. 3 1959, No. 9635 B  
AUTHOR : Ber, Artur; Grott, Ewa.  
INST. : -  
TITLE : Studying the Melanophore Reaction. 2nd Report.  
Locally Limited Color Changes in Frogs.  
ORIG. PUB. : Endokrynl. polska, 1956, 7, 195-203  
ABSTRACT : Locally applied pressure on the skin of frogs  
produces color changes which are caused by  
dilatation and contraction of melanophores.  
See also: RZB Biol. 1958, 96597.

CARD: 1/1

GROTT, EWA; OLSZEWSKI, Waclaw

Clinical significance of serial investigation on coagulation time following sugar load. Polski tygod. lek. 11 no.21:925-930 21 May 56.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lodzi; kierownik: prof. dr. J. W. Grott, Lodz, ul. Kopcinskiego 22, I Klinika Chorob Wewn. A.M.

(BLOOD COAGULATION,

clotting time, eff. of glucose load, serial investigation (Pol))

(GLUCOSE, effects,

on clotting time, serial investigation (Pol))

LISIECKA-ADAMSKA, Halina; GROTT, Ewa

Significance of trauma in pathogenesis of diabetes mellitus.  
Polski tygod. lek. 12 no.25:949-954 17 June 57.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Łodzi, kierownik  
prof. dr. J. W. Grott. Adres: Łódź, Wieckowskiego 56.  
(DIABETES-MELLITUS, etiology and pathogenesis,  
traum (Pol))

MALDYK, Henryka; GROTT, Ewa

Clinical manifestations in diabetes according to observations on  
1000 cases. Polski tygod. lek. 16 no.28:1070-1074 10 Jl '61.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik: prof. dr  
nauk med. J. W. Grott.

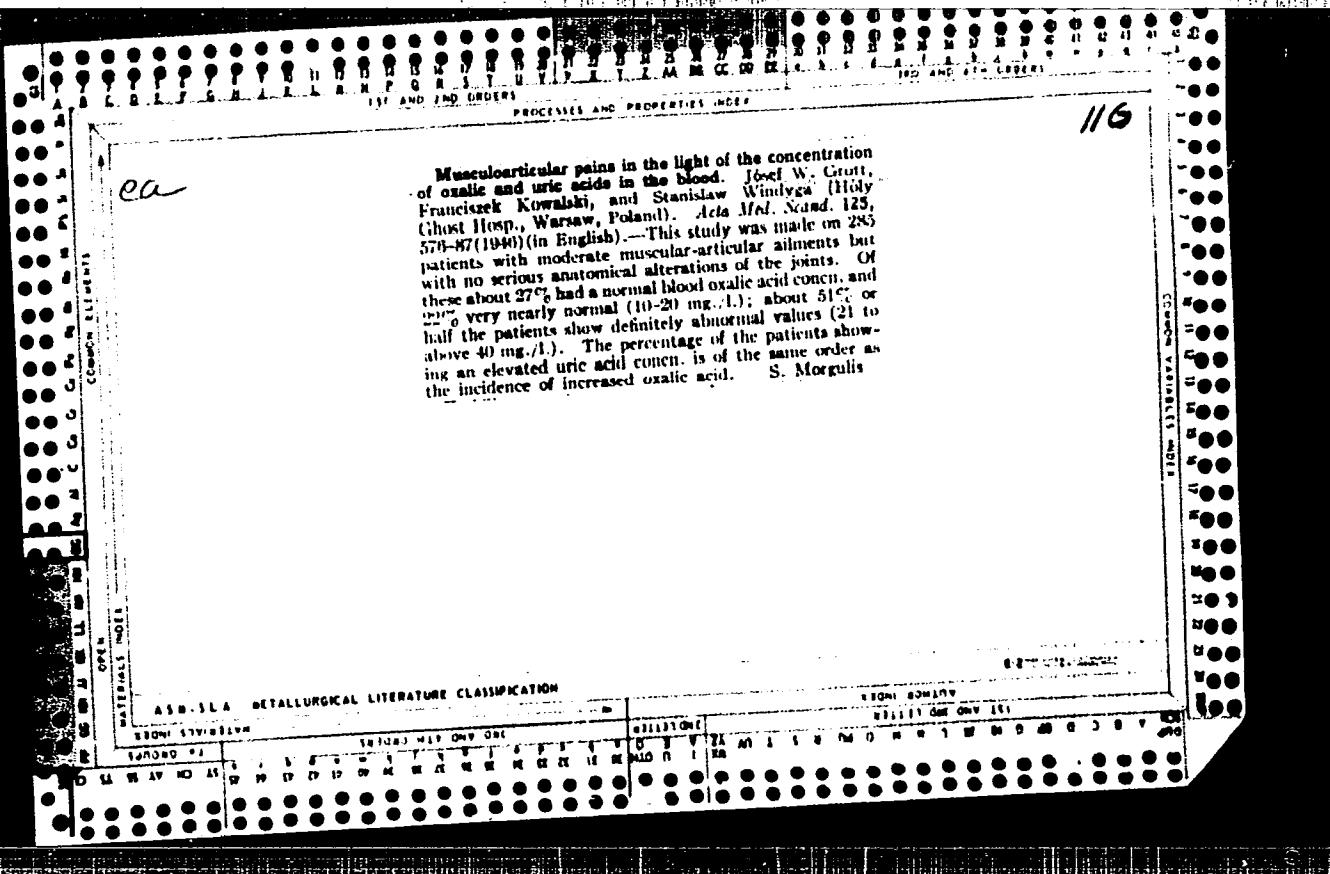
(DIABETES MELLITUS)

GROTT, Ewa; PRUSINSKI, Antoni; SZCZECINSKA, Olimpia

On the protein of the treatment of multiple sclerosis with D-860  
with special reference to the behavior of pyruvic acid. Pol. tyg.  
lek. 17 no.42:1631-1635 15 0 '62.

1. Z I Kliniki Chorob Wewnętrznych AM w Łodzi; kierownik: prof. dr  
nauk med. J.W. Grott i z Kliniki Chorob Nerwowych AM w Łodzi; kierownik:  
prof. dr nauk med. E. Herman.

(TOLBUTAMIDE) (MULTIPLE SCLEROSIS) (PYRUVATES)



GROTT, J.W.

Vitamin K therapy of internal diseases. Polski tygod. lek. 8 no.29:  
1015-1020 20 July 1953. (CMLL 25:1)

1. Of the Internal Clinic (Head--Prof. J. W. Grott, M.D.) of Lods Medical  
Academy.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROTT, Jozef Waclaw

Diagnosis of pancreatic diseases in general practice. Wiadomosci  
lek. 7 no.10:536-542 Oct 54.  
(PANCREAS, diseases,  
diag. in GP)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROTT, Jozef Waclaw, prof. dr., Lodz, Narutowicza 120 m.6

Therapeutic principles in uncomplicated diabetes. Wiadomosci lek.  
7 no.11:563-568 Nov 54.  
(DIABETES MELLITUS, therapy)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

GROTT, Jozef Waclaw

Modification of a method of determination of oxalic acid in serum,  
plasma, and erythrocytes. Przegl. lek. 10 no.3:81-84 Mr '54.

1. Z I Kliniki Chorob Wewnetrznych Akademii Med. w Lodzi. Kierow-  
nik: Prof. dr J.W.Grott.

(BLOOD,

\*oxalic acid, determ.)

(OXALATES, in blood,

\*determ.)

GROTT, Jozef Waclaw

GROTT, Jozef Waclaw; SZCZECINSKA, Olimpia

Behavior of oxalic acid in plasma and in erythrocytes. Przegl.  
lek. 10 no.3:84-86 Mr '54.

1. Z I Kliniki Chorob Wewnętrznych Akademii Med. w Łodzi.

Kierownik: prof. dr J.W.Grott.

(OXALATES, in blood,

\*determ.)

(BLOOD,

\*oxalic acid, determ.)

GROTT, Jozef Wacław

New symptom syndrome and its importance for early diagnosis of diabetes and pre-diabetic states in aged. Polski tygod. lsk. 10 no.14:  
418-420 4 Apr 55.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Łodzi; kierownik: prof.  
dr J.W.Grott.

(DIABETES MELLITUS, in aged,  
diag. early by symptom synd.)

GROTT, Józef Waclaw; DRYL, Stanislaw.

Arterial pressure in diabetes. Polski tygod.lek. 10 no.19:610-616  
9 May '55.

1. Z I Kliniki Chorób Wewnętrznych A.M. w Łodzi; kierownik: Kliniki  
prof. dr J. W. Grott) Łódź, ul. Narutowicza 120.  
(DIABETES MELLITUS, manifestations  
blood pressure)  
(BLOOD PRESSURE, in various diseases,  
diabetes mellitus)

GROTT, Jozef Waclaw; STACHURSKA, Wieslawa.

Lipases in blood serum of healthy persons. Polski tygod. lek. 10 no.35:  
1137-1140 29 Aug 55.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik: prof.  
dr. J.W.Grott. Łódź, Narutowicza 120 m. 6; dr. W.Torzecka, Łódź,  
ul. Pokladowa 49.

(LIPASES, determination  
in blood of healthy persons)  
(BLOOD  
lipases determ. in healthy persons)

GROTT, Jozef Waclaw; STACHURSKA-TORZECKA, Wieslawa

Diagnostic value of serum lipase in pancreatic diseases.  
Polski tygod. lek. 10 no.36:1169-1173 5 Sept 55.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lodzi: Kierownik:  
prof. Dr. J. W. Grott. Adresy autrow prof. J. W. Grott: Lodz,  
Narutowicza 120 m. 6; W. Stachurska-Torzecka, Lodz, Pokladowa  
49.

(PANCREAS, diseases,  
blood lipase in, diag. value)

(BLOOD,  
lipase, in pancreatic dis., diag. value)

(LIPASES, in blood,  
in pancreas dis., diag. value.)

GROTT, Jozef Waclaw; GINTOWT-DZIWILL, Witold.

Possibility of intrarectal administration of alcohol in the treatment of suppurative conditions of the lung. Polski tygod. lek. 10 no.49:1569-1572 5 Dec. '55.

1. Z I Kliniki Chorob Wewnetrznych A.M.w Lodzi; kierownik:  
prof. dr J.W.Grott. Lodz, ul. Narutowicza 120 m. 6.

(LUNGS, abscess,

ther.,alcohol admin. by intrarectal route)

(ABSCESS,

lung, ther.,alcohol by intrarectal route)

(ALCOHOL, ETHYL, therapeutic use,

abscess of lung, intrarectal admin.)

GROTT, Józef Waclaw, CALKA, Waclaw, LISIECKA-ADAMSKA, Halina.

Frequency of incidence of lung tuberculosis in diabetes. Polskie  
arch. med. wewn. 25 no.1:23-33 1955.

1. Z I klin. chow. wewch. A.M.w Lodzi; kier. prof. dr. med. J.W.Grott.  
(DIABETES MELLITUS, complications  
tuberc., pulm., incidence)  
(TUBERCULOSIS, PULMONARY, complications  
diabetes mellitus, incidence)

GROTT, Jozef, Wacław (Łódź)

Pancreatitis lamblioza latens. Wiadomosci parazyt., Warsz.  
2 no.5 Suppl:59 1956.

1. I Klinika Chorob Wewnętrznych AM.  
(GIARDIASIS,  
pancreas (Pol))  
(PANCREAS, diseases,  
giardiasis (Pol))

GROTT, Jozef, Waclaw (Lodz)

Considerations on a possibility of simplified therapy of  
lambliasis with atabrine. Wiadomosci parazyt., Warsz. 2  
no. 5 Suppl:71-72 1956.

1. I Klinika Chorob Wewnetrznych AM.  
(QUINACRINE, therapeutic use,  
giardiasis (Pol))  
(GIARDIASIS, therapy;  
quinacrine (Pol))

EXCERPTA MEDICA Sec. 6 Vol. 11/4 Apr. 57  
GROTT J.W.

2755. GROTT J.W. and LISIECKA-ADAMSKA H. Ul. Narutowicza 120 m. 6, Łódź  
"Oczęstość występowania cukrzycy. The incidence of diabetes  
POL. TYG. LEK. 1956, II/32 (1414-1420) Tables 1

The first part of the work presents the data concerning the incidence of diabetes  
in various countries. In the 2nd part attempts to establish an approximate number

2755 CONT.

of diabetics in Poland have been presented, based on foreign literature and own statistics of the city of Łódź, Poland, comprising 2,527 patients (over 14 yr. of age) treated in the Internal Clinic of the Medical Academy in Łódź over 8 yr. (1946-1954). The conclusions are as follows: (1) The data of literature show that in different countries and places the percentage of the diabetic patients amounts to 0.1%-2%, (a) the average number for the cities being generally twice as high as that for the country, and (b) the number of persons with diabetic tendencies being 4 times higher than the total number of patients. (2) During the 8 yr. of work in Łódź (1946-1954) 2,527 diabetic patients were registered, which amounts to 0.6% of approx. 700,000 of the inhabitants. (3) The number of diabetic children under 14 has been computed - in the absence of own statistics - according to Joslin's data as 0.038% of the total. (4) Accepting the percentage for cities as an average for the whole urban population and a half of the number for the countryside, we receive: (a) for towns: 0.6% - 58,500 persons, (b) for the countryside: 0.3% - 29,250 persons, (c) for children: 0.038% - 3,040 persons i.e. about 90,000 diabetic patients, and 4 times as much i.e. 360,000 of people with diabetic tendencies for Poland. (5) Accepting susceptibility to diabetes amounting only to 0.4% for towns and to 0.2% for the countryside we should get a minimum: (a) in towns - 39,000, (b) in the country - 19,500 and (c) children - 3,040; i.e. about 61,000 of diabetic patients and 24,000 of people with diabetic tendencies for Poland. (6) The number of diabetics in Poland, suffering from complicated pulmonary tb may amount from 3,600 to 5,400 persons. (7) Even if we accept the minimum numbers of the diabetic patients and the people with diabetic tendencies amounting to 61,000 and 240,000 respectively, they impose a serious responsibility on the Social Health Service demanding quick decisions and some organization. The considerations presented in the paper have been completed with some postulates regarding the problem of diabetes in Poland.

SECRETA MEDICA Sec. 6 Vol. 11/7 July 57  
G.R.017 J. U.

4224. GROTT, J.V., Ire Clin. de Mal. Intern., Łódź. "Le diabète sucre envisagé au point de vue de la possibilité de sa guérison. Diabète mellitus and the possibilities of recovery." DIABÈTE (Paris) 1956, 4, 4 (189-195).

Patients recovered from diabetes are subdivided into 3 groups: (1) those in whom recovery must be attributed to regeneration of the endocrine B cells of the pancreas; (2) those in whom it was due to normalization of the metabolism following a weakening of the endocrine system antagonistic to insulin; (3) the unfavourable cases in which the normalization of the carbohydrate metabolism is due to such causes as cerebral lesions, hepatic lesions, infectious diseases, renal diseases, old age, arteriosclerosis, prolonged malnutrition etc. Conditions for recovery are: vigorous insulin treatment and restricted diet. This diet must contain at least 200 g. of carbohydrates of the easily assimilating type, not counting the green vegetables which can be taken in unrestricted quantities, about 1 g. protein per kg. body weight, and 30-90 g. fat, depending on individual requirements. Once stabilization of the disease has been obtained, the doses of insulin must be limited as much as possible to 20 U. per injection, so as to avoid hypoglycaemia and to spare the antagonist systems which regulate carbohydrate metabolism. The purpose of the treatment must be not only clinical but also biochemical improvement. When treatment along these lines is applied steadily and constantly, it may result in the transformation of a severe to a mild form of diabetes, and sometimes in temporary or lasting recovery.

Derot - Paris

GROTT, Josef Wacław

Possibilities and requirements for cure of diabetes mellitus.  
Polski arch. med. wewn. 26 no.7:1019-1034 1956.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Łodzi Kierownik:  
prof. dr. med. J. W. Grott, Łódź, ul. Narutowicza 120 m. 6.  
(DIABETES MELLITUS, therapy,  
(Pol))

EXERPTA MEDICA Sec 6 Vol 13/P Internal Med. no. 50

4700. BLOOD SUGAR CURVE AFTER INGESTION OF GLUCOSE IN PATIENTS WITH A NEW SYNDROME FOR AN EARLY DIAGNOSIS OF DIABETES AND PREDIABETIC STATES IN PATIENTS OVER 40. -Analiza krzywych cukru we krwi po obciążeniu ustroju glikozą u chorych z nowym zespołem objawów dla wczesnego wykrywania cukrzycy oraz stanów podcukrzycowych po 40 r. życia -Grott J. W. I.Klin. Chor. Wewn., A.M., Łódź - POL. TYG. LEK. 1958, 13/20 (745-750) Tables 4

The syndrome consists of the following symptoms: (1) age over 40, (2) obesity or tendency to it, (3) pronounced paradontosis, and (4) atrophy of s.c. tissue in the region of the pancreas. The present paper presents an analysis of blood sugar curves and urinalysis 1.5 and 2 hr. after an ingestion of 50 g. of glucose in 226 out-patients with the new syndrome. Hagedorn and Jensen's method was applied. The results are presented in 3 tables. As a result of the investigations 64 (27.81%) subjects showed a slight and 34 (16.43%) a considerable disturbance in the carbohydrate metabolism. With the latter the peak of the blood sugar curve exceeded 200 mg. per 100 ml. and glycaemia exceeded 160 mg. per 100 ml. 2 hours after the ingestion of glucose. The disturbance showed the presence of diabetes or its imminence. The investigation shows that the new syndrome can be useful in an early diagnosis of diabetes and prediabetic states in patients over 40. Consequently, a 2-stage examination of all patients over 40 is advocated. The 1st stage should point out who are suspected of diabetes (all those with the syndrome). The 2nd stage should consist in the examination of the blood sugar curve, after an ingestion of 50 g. of glucose by the suspects only, for the final diagnosis. The patients with the new syndrome but with a normal carbohydrate metabolism should be examined from time to time for a long period.

(VI, 3)

GROTT, Jozef Wacław

Comparison of the clinical value of modern methods of palpation  
of the pancreas. Polski tygod. lek. 14 no.25:1141-1146 22 June 59.

1. (Z I Kliniki Chorob Wewn. A. M. w Łodzi; kierownik: prof. dr  
nauk med J. W. Grott).  
(PANCREAS) (PALPATION)

GROTT, Josef Waclaw; KORZON, Janusz; GROTT-SWIEZAWSKA, Ewa

Common errors in the diagnosis of diabetes mellitus. Polski  
tygod. lek. 14 no.32:1499-1503 10 Aug 59.

1. (Z I Kliniki Chorob Wewn. A. M. w Lodzi; kierownik - prof. dr  
nauk med. J. W. Grott)  
(DIABETES MELLITUS, diag.)

GROTT, Józef Wincenty; KORZON, Janusz; GROTT-SWIDZAWSKA, Ewa

Common errors in the treatment of diabetes mellitus. Polski tygod.  
lek. 14 no.33:1540-1544 17 Aug 59.

1. (Z I Kliniki Chorob Wewnętrznych A. M. w Łodzi; kierownik: prof.  
dr nauk med. J. W. Grott)  
(DIABETES MELLITUS, ther.)

GROTT, Jozef Macław, KALISZEWICZ, Seweryn; GINTOWT-DZIWILL, Witold

Therapeutic procedure in a dental infection complicating anginal conditions in diabetic patients. Polski tygod. lek. 15 no.27: 1031-1034 4 J1 '60.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik: prof. dr n.med. J.W.Grott.

(DIABETES MELLITUS compl)  
(ANGINA PECTORIS compl)  
(TEETH dis)

GROTT, J.W.; MARZEC, L.; GINTOWT-DZIWILL, W.; KORZON, T. [deceased];  
PITEROWA, R.; POSKUTA, W.; J.W.ZURKOWSKI.

Studies on the hazard of diabetes mellitus in 100 obese and obesity-prone subjects over 40 years of age. I. Evaluation of the carbohydrate metabolism. Polarski tygod. lek. 16 no.41:1569-1573 9 0 '61.

1. Z Osrodku Naukowo-Leczniczego w Busku-Zdroju oraz I Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik: prof. dr nauk med. J.W.Grott.  
(OBESITY compl) (DIABETES MELLITUS etiol)  
(BLOOD SUGAR)

GROTT, J.W.; OLSZEWSKI, W.

Serial determination of the coagulation time (Grott's test) and other liver function tests in the diagnosis and control of diseases of the hepatic parenchyma. Cesk. gastroenter. 16 no.2:82-86 Mr '62.

1. I. interni klinika lekarske akademie v Lodzi, prednosta prof. dr.  
J. W. Grott, DrSc.  
(BLOOD COAGULATION TESTS) (LIVER FUNCTION TESTS)  
(LIVER DISEASES)

**POLAND**

GROTT, Jozef W., POSKUTA, W., and PEDRYCZ, W., First Clinic of Internal Diseases (I Klinika Chorob Wewnętrznych) AM [Akademia Medyczna, Medical Academy] in Łódź, the Sciences and Therapy Center (Osrodek Naukowo Lecniczy) in Busko-Zdroj (Director: Prof. Dr. med sci J. W. GROTT), and the Województwo Sanitation and Epidemiological Station (Wojewódzka Stacja Sanitarro-Epidemiologiczna) in Kielce (Director: Dr. med. A. CWIAKALA)

"Intestinal Parasites in the Clinical Center in Busko-Zdroj."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 4, 21 Jan 63,  
pp 130-134.

Abstract: [Authors' English summary modified] A study for intestinal parasites was made on patients admitted to the bainiological center. Methods of the study and the findings are reported. In 13.8 percent of the cases the presence of one or more parasites was established. In view of effect on blood picture and on pancreatic activity, the parasitic condition should be cleared up before admission. Of the 24 references, 2 are Russian, 3 Italian, and the others Polish.

1/1

STACH, Andrzej, First Clinic of Internal Diseases (I Klinika Chorob Wewnętrznych), AM [Akademia Medyczna, Medical Academy] in Łódź (Director: Prof. Dr. med. sci. J.W. GROTT)

"Threatening Diabetes Among Laborers of the Cotton Industry."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 26, 24 Jun 63,  
pp 939-941.

Abstract: [Author's English summary modified] Author cites the literature regarding the rising incidence of diabetes in all the classes of the Polish population, and reports the details of a study he conducted himself on 1,000 laborers of a cotton factory in Łódź where he is factory physician. He found 4.8% suspected diabetics, 1.6% prediabetic, and 1.4% positive cases, and calls for a campaign of prevention, treatment, and care on the part of the Health Service (Sluzba Zdrowia). There are 25 references: 12 Polish, 7 German, and 6 Western.

1/1

GWP, Jozef Wacław

Research and therapeutic requirements in the field of diabetes.  
ul. tyg. lek. 19 no.11;410-413 9 Mr '64.

1. Z I Kliniki Chorob Wewnętrznych Akademii Medycznej w Łodzi  
(kierownik: prof. dr nauk med. J.W. Grott).

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CIA-RDP86-00513R000617110005-0

GROTT, Jozef.W.; LASKOWSKI, Stanislaw; PIETK, Regina; SWIEZAWSKA, Ewa

Role of trasylol - trypsin inactivator -- and kallikrein in pan-  
creatitis. Pol. tyg. lek. 19 no. 26:998-1000 22 Je'64

1. Z I Kliniki Chorob Wewnetrznych Akademii Medycznej w Lodzi;  
kierownik: prof. dr. nauk med. J.W.Grott.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

GROTT, Jozef Waclaw

Notes on the diagnosis and therapy of exacerbated latent  
pancreatitis. Pol. arch. med. wewnet. 34 no.3:331-341 '64.

l. Z I Kliniki Chorob Wewnetrznych AM w Lodzi; kierownik:  
prof.dr.nauk med. J.W.Grott.

\*

GROTT, Józef. A.; LISIECKA-ADAMSKA, Halina; SWIATAWSKA, Ewa

Education as the basic factor in the treatment and rehabilitation of diabetic patients. Wiad. lek. 18 no.13:1049-1054  
1 Jl '65.

1. Z I Kliniki Chorob Wewnętrznych AM w Łodzi (Kierownik:  
prof. dr. med. J.W. Grott).

GROTT, Josef Waclaw; KORZON, Janusz; GROTT-SWIEZAWSKA, Ewa

Common errors in the diagnosis of diabetes mellitus. Polski  
tygod. lek. 14 no. 32:1499-1503 10 Aug 59.

1. (z I Kliniki Chorob Wewn. A. M. w Lodzi; kierownik - prof. dr  
nauk med. J. W. Grott)  
(DIABETES MELLITUS, diag.)

GROTT, Jozef Wacław; KORZON, Janusz; GROTT-SWIEZAWSKA, Dwa

Common errors in the treatment of diabetes mellitus. Polski tygod.  
lek. 14 no.33:1540-1544 17 Aug 59.

1. (Z I Kliniki Chorob Wewnętrznych A. M. w Łodzi; kierownik: prof.  
dr nauk med. J. W. Grott)  
(DIABETES MELLITUS, ther.)

SLADKI, Edward; GROTT-SWIEZAWSKA, Ewa; ZAK, Edward

On possible azulene therapy of chronic inflammations of the large intestine. Polski tygod.lek.15 no.21:784-787 23 My '60.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lodzi; kierownik: prof. dr nauk med. J.W.Grott.

(CYCLOPARAFINS ther)  
(COLITIS ther)

LADIYEV, R.Ya., kand.tekhn.nauk; OGORODNIK, A.V., inzh.; GROTE, A.M., inzh.

Deriving the equation of the dynamics of an amalgam-decomposing  
cell according to experimental transient characteristics. Avtom.i  
prib. no.2:50-54 '61. (MIRA 14:12)  
(Electrolysis) (Automatic control)

J. 13055-63

EWT(1)/BDS AFFTC/ASD

57

ACCESSION NR: AT3002994

55

S/2927/62/000/000/0131/0135

AUTHOR: Gordiyenko, T. I.; Grotte, A. M.; Ivanchenko, I. A.; Savelov, V. N.; Yanovich, V. S.

TITLE: Peculiarities in obtaining a high-gain triode structure [Report of the All-Union Conference on Semiconductor Devices held in Tashkent from 2 to 7 October 1961]

SOURCE: Elektronno-dy\*rochny\*ye perekhody\* v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 131-135

TOPIC TAGS: germanium phototriode, high-gain germanium phototriode

ABSTRACT: Some peculiarities of the manufacturing process of high-sensitivity (1-10 amp/lum) Ge phototriodes with a gain of 100-300 and 40-50 per cent output efficiency are reported. Temperature conditions observed in the postalloyed diffusion process (formation of p-n-p structure) are reported: maximum temperature 760C, 2-hr annealing at 620C, cooling at the rate of 10C per min within 760-620C. A method of calculating the base thickness (6.5 microns) is set forth. Selection of the resistivity of source material (Ge with 3 ohm.cm and 0.7-mm diffusion

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ACCESSION NR: AT3002994

2

length) is discussed. In conclusion, an electrolytic method for cutting Ge is recommended: anode dissolution of Ge in water of 200-500 kohms with a 100-micron W filament as cathode. Orig. art. has: 1 figure and 9 formulas.

ASSOCIATION: Institut avtomatiki Gosplana UkrSSR (Institute of Automation, Gosplan, UkrSSR); Akademiya nauk SSSR (Academy of Sciences SSSR); Akademiya nauk Uzbeckoy SSR (Academy of Sciences UzSSR); Tashkentskiy gosudarstvennyy universitet (Tashkent State University)

SUBMITTED: 00 DATE ACQ: 15May63 ENCL: 00

SUB CODE: 00 NO REF Sov: 000 OTHER: 000

Card 2/2

REVIEWED BY [redacted] (initials), rank: [redacted] APPROVED BY [redacted]

Type Dog in a duodecide, Autom. pris. no. 255-56 Ap-Je 165. (MTRA 185)

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLIFER,  
A.V., nauchn. sotr.; SHCHERBAKOV, V.V., nauchn. sotr.; POVZUN,  
I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA,  
A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.;  
VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO, D.P., nauchn. sotr.;  
BOGDAN, L.I., nauchn. sotr.; GROTTA, G.M., nauchn. sotr.;  
SKUTSKAYA, N.P., red.; DAKHNO, Yu.B., tekhn. red.

[Pests and diseases of fruit and berry crops] Vrediteli i bo-  
lezni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Izd-vo  
AN Ukr.SSR, 1962. 275 p. (MIRA 16:7)

(Fruit—Diseases and pests)

Grotte, M.G.

USSR/General and Special Zoology. Insects. Injurious In- P  
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49621

Author : Grotte M.G. Chokalov A.I.

Inst : "

Title : Control of Pests and Diseases of Fruit Plantings.

Orig Pub : Mekhaniz. sil'sk, gospodarstva, 1958, No 5, 20-21

Abstract : No abstract

Card : 1/1

43

GROTTE, M.G. [Hrotte, M.H.], naukovyi spivrobitnik; CHEKALOV, A.I.,  
naukovyi spivrobitnik

Investigating the dusting equipment of garden sprayers. Mekh.  
sil'. hosp. [9] no.5:32 - 3 of cover My '58. (MIRA 11:6)

1.Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i  
elektrifikatsii sel'skogo khozyaystva.  
(Spraying and dusting equipment)

Heinkel, A.G.; Messerschmitt; Dornier, F.W., etc.

Re: nozzle or ordnance components. Serial no. 11000617110005  
(IRM 12:7)

1. Messerschmitt's newly-issued technical institute experiments in  
the field of solid rocket motors.  
(Spritzlers) (Nozzles)

GROTTE, M.G., starshiy nauchnyy storudnik

Universal nozzle for orchards. Zashch. rast. ot vred. i  
bol. 5 no. 8:24-25 Ag '60. (MIRA 13:12)

1. Ukrainskiy institut mekhanizatsii i elektrifikatsii  
sel'skogo khozyaystva.  
(Spraying and dusting equipment)

GROTTE, M.G. [Hrotte, M.H.], nauchnyy sotrudnik; BABKEVICH, Yu.S.,  
nauchnyy sotrudnik

Mounting the ONK spraying and dusting machine on DT-14 tractors.  
Mekh. sil'. hosp. 11 no.6:13-14 Je '60. (MIRA 13:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii  
i elektrifikatsii sel'skogo khozyaystva.

(Spraying and dusting equipment)

GROTTE, M. G.

Cand Tech Sci - (diss) "Study of the effect of geometric parameters of sprinkler equipment of sprayers on the disperseness of the spray pattern in combating agricultural pests." Kiev, 1961. 18 pp with diagrams; (Ministry of Agriculture Ukrainian SSR, Ukrainian Academy of Agricultural Sciences); 200 copies; price not given; (KL, 7-61 sup, 234)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROTE, M.G., kand.tekhn.nauk; MIKHNO, Ye.R., mladshiy nauchnyj prudnik

Low volume spraying of orchards. Zashch.rast. ot vred. i bol. 9  
no.11:29-30 '64. (MIRA 18:2)

1. Ukrainskiy institut mekhanizatsii i elektrifikatsii sel'skogo  
khozyaystva, Kiyev.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.;  
OLIFER, A.V., nauchn. sotr.; SHCHERBAKOV, V.V., nauchn.  
sotr.; POVZUN, I.D., nauchn. sotr.; MASLO, Ye.N., nauchn.  
sotr.; KRYLOVA, A.S., nauchn. sotr.; MATVIYEVSKIY, A.S.,  
nauchn. sotr.; VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO  
D.P., nauchn. sotr.; BOGDAN, L.I., nauchn. sotr.; GROTE  
M.G., nauchn. sotr.; CHEPUR, N.D., red.

[Pests and diseases of fruit and berry plants; a manual]  
Vrediteli i bolezni plodovye-iagodnykh kul'tur; spravochnik.  
Kiev, Naukova dumka, 1965. 287 p. (MIHA 18:9)

GROTEL, Kazimierz; MICHALKIEWICZ, Maria

Excretion of uropepsin and 17-ketosteroids in the urine of dogs  
during estrogen administration. Endocr. Pol. 16 no.1:97-104  
Ja-F'65.

1. Zaklad Anatomii Prawidlowej Akademii Medycznej w Poznaniu  
(Kierownik: prof. dr. J. Kalaczewski); 1. Klinika Poloznictwa  
i Chorob Kobiecyh Akademii Medycznej w Poznaniu (Kierownik:  
prof. dr. W. Michalkiewicz).

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROTEL, Kazimierz

Celiac plexus and suprarenal plexus in guinea pig. Folia morph.  
(Warsz.) 24 no.3:341-349 '65.

1. Z Zakladu Anatomii Opisowej i Topograficznej AM w Poznaniu  
(Kierownik: prof. dr. J. Kolaczkowski).

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

GROTEL, Tadeusz; PISARSKI, Tadeusz

Infarcts in the placenta in pregnancy toxemias. Gin. polska  
27 no.6:709-716 Nov-Dec 56.

1. Z Kliniki Poloznictwa i Chorob Kobiecych AM w Poznaniu  
Kier. prof. dr. Med. I. Roszkowski, A. Pisarski, Poznan, ul.  
Armii Czerwonej 70.

(PREGNANCY TOXEMIAS, pathology  
placental infarcts, classif. (Pol))  
(PLACENTA, infarction  
in pregn. toxemias, classif. (Pol))

PETROV, V.V.; GROTTGUS, T.; REYS, F.F.; SPRAKHOV, P.I.; BOLOTOV, A.T.;  
TELEPNEV, V.D.; BEL'KIND, L.D., professor, redaktor; KUZNETSOVA,  
Ye.B., redaktor, TUMARKINA, N.A., tekhnicheskiy redaktor

[Selected works on electricity] Izbrannye trudy po elektrichestvu.  
Pod red. i s primechaniemi L.D. Bel'kinda. Moskva. Gos. izd-vo  
tekhniko-teoret. lit-ry, 1956. 299 p. (MLRA 10:4)  
(Electricity--Early works to 1850)

GROU, ELVIRA

The analysis of hexachlorocyclohexane. Sever Petrescu,  
Elvira Grou, Nicolae Balcescu, Neagu Bulu, and Mureasa  
Balulescu. *Commun. Acad. Rep. Populare Române*, 4, 307-  
73 (1954).—Different methods for detg. the isomer of  
hexachlorocyclohexane were compared. The results are  
given and as official analytical procedure the method  
Granger and Zwilling is proposed (cf. *C.A.*, 45, 2371c).  
A. Halasz

PMK

G-100, E

✓ 3488. New method of determination of dinitro-o-cresol in insulichlor. S. Petragiu and H. Grigore, *Anal. Inst. Cerc. Agric. Române*, 1951-2, 1952, 12, 602-617.—The respective drawbacks of the Knecht-Hibbert ( $TiCl_4$  titration) and Fischer (colorimetric reaction with  $KCN$ ) methods—lability of  $TiCl_4$  to oxidise and instability of the colour with  $KCN$ —are discussed and a new method is proposed. The dinitro-o-cresol is converted (Zn and 60 per cent.  $H_2SO_4$ ) into diaminofluoresol which is then oxidised to aminoquinonimine by a Mayr reaction (with  $K_2Cr_2O_7$ ), and the extinction is measured with a spectrophotometer or photoelectric colorimeter and compared with a standard curve. Within certain (undefined) concn. limits the colour developed follows the Beer-Lambert law. A series of tests on various products and calculation of the relative and absolute errors indicate that the accuracy of the method is between 1 and 5 per cent. (mean 4 per cent.), i.e., that it is comparable with that of the two older methods considered. The coloration produced remains constant for 24 hr., which considerably facilitates the procedure. (From French summary.)

S.C.I. ABSTRACT

Grou, E

USSR-RUMANIA/Analytical Chemistry - Analysis of Organic  
Substances

G-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4844

Author : Petrashku, S., Grou, E.  
Inst : Academy of Sciences Rumanian People's Republic  
Title : Colorimetric Method for the Determination of Dinitro-  
phenols

Orig Pub : Biol. zh. Akad. RMR, 1956, 1, No 1, 263-267

Abstract : Determination of dinitrophenols (I) in insecticidal and  
herbicidal preparations is based on conversion of I to  
amino-quinoneimines and a colorimetric determination of  
the latter in aqueous solution; the corresponding dinitro-  
alkyl phenol is used as a standard. Determinations are  
made by direct comparison in a Duboscq colorimeter, pho-  
toelectric colotimeter of Lang, with a blue filter,  
FEK-M or Pulfrich colorimeter. For a determination of  
I a 1-5 g sample is dissolved in 20 ml alcohol and the

Card 1/2

- 56 -

GROW, E.

A colorimetric method for the determination of dinitrophenols. p. 93.

STUDII SI CERCETARI DE CHIMIE

Vol. 4, No. 1/2, Jan./June 1956

Rumania

SOURCE: EEAL, Vol. 5, No. 10 Oct 1956

COUNTRY : Rumania H-18  
CATEGORY :  
ABS. JOUR. : AZKhim., no. 1959, No. 87725  
AUTHOR : Grou, E.; Rontea, V.  
INST. : Institute of Agronomic Research  
TITLE : Chemical Compatibility of New Preparations  
Used for Plant Protection  
CRD. PUB. : An. Inst. cercetari agron., 1957 (1958), 25,  
No 4, 575-585  
ABSTRACT : The following are compatible: Ca-polysulfide  
(I) with Ca-arsenate (II), hexachlorobenzene, and DDT;  
Bordeaux mixture (BM) with wettable sulfur (WS) and DDT;  
WS with hexachlorobenzene and DDT; II and Pb-arsenate (III)  
with hexachlorobenzene; DDT with parathion (IV); IV with  
hexachlorobenzene and DDT; hexachlorobenzene with 2,4-D.  
The following mixtures are incompatible: I with BM, III and  
IV; BM with hexachlorobenzene. Mixture of WS and BM protects  
apples against Endostigme inaequalis and Podosphaera leuco-  
tricha, and grapes against mildew and Oidium. The incom-  
patible mixture of BM and ISO yields analogous results due  
to formation of sulfur compounds of Cu.  
I. Mil'shteyn.  
CARD:

COUNTRY : RUMANIA H  
CATEGORY : Chemical Technology. Chemical Products and Their  
Application. Pesticides.  
ABS. JOUR. : RZhKhim., No 17, 1959, No. 61985  
  
AUTHOR : Petrascu, S.; Grou, E.  
INSTITUTE : -  
TITLE : Indirect Analysis of Binary Mixtures of the Poly-  
chlorinated Compounds.  
ORIG. PUB. : Studii si cercetari chim., 1958, 6, No 1, 127-138  
  
ABSTRACT : On the example of a mixture of HCCH and DDT, the  
method of analysis involving binary mixtures of  
polychlorinated compounds is generalized. Pre-  
sented are general formulas for calculation of th  
the content of both components in mixtures. With  
the aid of the developed coefficients, it is po-  
ssible to derive numerical expressions, applicable  
for any specific instance. Necessary requirements  
in making this method effective is precise deter-  
mination of the total (Bush's method) and of the  
effective chlorine (dehydrochlorination at approx.  
20° with alcoholic KOH solution with subsequent  
determination of chlorine by the potentiometric ti-  
tration).  
  
Card: 1/1

H - 81

PETRASCU, Sever; GROU, Elvira; BALLIF, Gabriela

Analysis of the phenoxyacetic acomounds by indirect method. Studii  
cerc chim 7 no.4: 549-568 '59. (EEAI 9:7)

1. Institutul de cercetari agronomice, Laboratorul de fungicide-  
insecticide, Bucuresti.  
(Mixtures) (Phenoxyacetic acid)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROU, E.; BALIF, Gabriela

Determining the HCH and DDT residues by chlorine microdetermination.  
Rev chimie Min petr 13 no.11:682-685 N '62.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

GROU, Elvira; BALIF, Gabriela; BERATLIEF, Constantin

Determination of dieldrin residues in potato tubers. Studii  
cerc biol veget 14 no.3:345-350 '62.

1. Comunicare prezentata de Alice Savulescu, membru corespondent  
al Academiei R.P.R.

BALIF, Gabriela; GROU, Elvira; PASOL, P.

Determination of the DDT and HCH residua on wheat. Studii  
cerc biol s. bot 16 no. 3:249-256 '64.

1. Laboratory of Phytopathology and Microbiology, "Traian  
Savulescu" Institute of Biology.

GROU, I., Ing.; TULLIU, D., ing.

Treatment of residual waters from dressing plants. Pt.1.  
Rev min 15 no.9:460-464 S '64.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0

GROU, L., M.(+); . . . . ., 1965.

Treatment of residual water of spreading plants. 1965. 16 p.  
16 no.1:23-28 Ja '65.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110005-0"

KHEYFITS, L.A.; MOLDOVANSKAYA, G.I.; GROUN, E.V.; BELOV, V.N.

Terpenophenols. Part 3: Study of the products of condensation  
of camphene with phenol, Zhur. ob. khim. 30 no.5:1716-1721  
Mg '60.  
(MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh  
i natural'nykh dushistykh veshchestv.  
(Camphene; (Phenol))

DEMEN'T'YEV, V.A., kand.tekhn.nauk; OCHANIN, D.A., kand.peda.prog.nauk;  
VENDA, V.F., inzh.; GROUNDON, R.R., inzh.; MEL'NIKOV, I.V., inzh.;  
NECHAYEV, B.Ya., inzh.; RYBACHEV, N.V., inzh.; SMIGEL'SKIY, S.Ya.,  
inzh.; STEPANOV, V.I., inzh.; TIMOF'EYEV, V.A., inzh.; SHIROCHENSKIY,  
V.I., inzh.

Control of the operation of an overall automatic block. Mekh.  
i avtom.procizv. 19 no.2:47-52 F '65.

(MIRA 18:3)

1. GROZDETSKIY, N.
2. USSR (600)
4. Makeev, Z. A.
7. Principal types of surface relief represented on maps. Z. A. Makeev.  
Reviewed by N. Gvozdetskiy. Izv. Vses. geog. ob-va 79, No. 3, 1947.
9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

Polish Technical Abst.  
No. 4, 1953  
Metallurgy

2304 660.15-104 : 060.14.018.58-103 : 631.70 : 631.97 : 630.186

Markuszewicz M., Groverek J. Effect of Various Additions, Hot Working, and Heat Treatment on the Magnetic Properties of Low Carbon Steels.

"Wpływ niektórych dodatek, przeróbkę plastyczną : obróbki cieplnej) na właściwości magnetyczne stali niskowęglowej". (Prace Instytutów Min. Huta i Górnictwa No. 1), Katowice, 1953, PWT, 32 pp., 50 fig., 30 tabs.

In the theoretical part of this paper the applications of low carbon steel in electrotechnics are described, together with the effect of various factors, such as content of additions, grain size, orientation of crystalline particles and mechanical strains, on the magnetic properties of the material. The authors examined a steel from 4 melts from a basic open hearth furnace containing 0.03% of C and a steel from 22 melts from a 1 kg. electric induction furnace. When testing the effect of heat treatment, it was found that for large sections (100-300 mm dia.) magnetic properties depend entirely upon the zone segregation. In the case of thin sheets, better magnetic properties are connected with the partial decarburization during the annealing and rolling. The effect of heat treatment on the magnetic properties was tested on sheets pickled and covered with scale (by normalizing) and then box annealed. Gaseous atmospheres of hydrogen and nitrogen, dry and wet, were used. It was found that annealing performed in high temperatures (1100-1200°C) contingent on the atmosphere used, may, owing to the increased content of nitrogen and oxygen in steel, have a detrimental influence on the magnetic properties. Those phenomena appear with particular distinctness when annealing is carried out in a nitrogen

atmosphere or in sheets covered with scale. The beneficial effect of scale appears distinctly at lower temperatures. The coercive force of 0.4-0.6 Oersted was obtained in 1 mm sheets, due to grain growth and a considerable decarburization (up to 0.009% of C), after a 24 hours annealing at a temperature of about 800°C. Sheets and rods pickled and pack-annealed at temperatures of 1100 and 1200°C showed, although they had a low coercive force immediately after the treatment, a considerable increase of that force as a result of steel ageing due to a higher content of nitrogen in the metal. It was found, when testing the effect of additions, that low carbon steel, containing about 0.6% of Si and up to 0.25% of Al, does not show any noticeable change in magnetic properties arising from the ageing. The addition of 0.2% of Si and of 0.2% of Al was found to be the most suitable.

4  
③ MET

GROVECKI, J.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Metallurgy and Metallography

(S) 1177  
Effects of various additions, hot working, and heat-treatment on the magnetic properties of low-carbon steel. M. Markuszewicz and J. Grovecki. *Prace Inst. Metalurgii i Hulnicz. 5, 1-34 (1953).* The results are: (1) Rimmed steel shows, because of a substantial segregation of impurities, large variations of magnetic properties depending on the area of sampling. (2) Hot-working of steel bars with diams. ranging between 20 and 100 mm, shows no effect on the magnetic properties. Improvements noticed in rolling strip were attributed to partial removal of C. (3) Recrystn. under crit. conditions (10% reduction at 800°) causes grain growth and improvement of magnetic properties. (4) Cold reduction produces no favorable effect. (5) Annealing of steel strip in the atm. of moist H<sub>2</sub> at 800° shows substantial decarbonization, grain growth, and higher magnetic properties. (6) Heat-treatment at high temp. (1100 and 1250°) shows strong influence of the atm. on the magnetic properties of the material. Presence of O and N causes a decrease in the magnetic properties due to the diffusion of the gases into steel. (7) Rimmed steel shows the effect of aging following heat-treatment, because of N absorption by the metal. (8) Si in amt. of 0.6 or Al in amt. of 0.25% or a combination of both (0.2% of each) prevents successful aging. 74 references. M. O. Holowatz

GOVOROV, V.P.

POLYAKOV, D.L., inzhener, redaktor; BATURIN, V.V., kandidat tekhnicheskikh nauk, redaktor; BORISOV, V.P., inzhener, redaktor; GOVOROV, V.P., inzhener, redaktor; MATS, Ya.M., inzhener, redaktor; BYVKIN, Kh.I., kandidat tekhnicheskikh nauk, redaktor; TURKUS, V.A., dotsent, redaktor; KORSAKOV, S.S., retsenzent; UFIMTSEV, G.N., retsenzent.

[Manual for planning heating and ventilation systems of industrial enterprises] Spravochnik po proektirovaniu otoplennia i ventilatsii promyshlennykh predpriiatii. [Redkollegija D.L. Poljakov i dr. Redaktor V.A. Turkus] Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953-

(MIRA 7:6)

1. Leningrad. Proyektnyy institut ministerstva stroitel'stva.  
(Heating--Handbooks, manuals, etc.) (Ventilation--Handbooks, manuals,  
etc.)

GOVOROV, V.P.

Conference of engineers and technologists and industrial innovators of the installation organizations under the Main Administration of Sanitary Engineering Construction of the Ministry of the Construction Industry of the U.S.S.R. Vod. i san. tekhn. no.7:38-39 O '55. (MLRA 9:2)  
(Nevosibirsk--Sanitary engineering--Congresses)

GOVOROV, V.P.

New sanitary engineering equipment. Vod. i san. tekhn. no.2:1-11  
F '57. (MLRA 10:6)

(Sanitary engineering)

POPOV, V.V.; GOVOROV, V.P., nauchnyy red.; YEL'CHUKOV, V.S., red.;  
BERKUT, I.V., sv.v. za vypusk

[Program for the subject "Machines and apparatus for sanitary engineering work" in the technical school major - "Sanitary installations in buildings," approved by the Ministry of Higher Education of the U.S.S.R., April 14, 1955. A 65-hour course]  
Programma predmeta "Stanki i mekhanizmy dlia proizvodstva sani-  
tarno-tehnicheskikh rabot" k uchebnomu planu spetsial'nosti  
tekhnikumov "Sanitarno-tehnicheskie ustroistva zdaniia."  
utverzhdennomu Ministerstvom vysshego obrazovaniia SSSR, 14 aprelia  
1955 g. Ob"em programmy - 65 chasov. Moskva, Uchebno-metodiche-  
skii kabinet, 1958. 7 p. (MIRA 12:2)

Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Otdel  
uchebnykh zavedeniy upravleniya kadrov.  
(Building machinery)

KOSTRYUKOV, V.A., inzh.; KOPYLOV, L.I., inzh.; GOVOROV, V.P., inzh.,  
nauchnyy red.; YEL'CHUKOV, V.S., red.; BERKUT, T.V., otvetsv.  
za vypusk

[Program for the subject "Production standards and estimates" in  
the technical school major "Sanitary installations in buildings,"  
approved by the Ministry of Higher Education of the U.S.S.R.,  
April 14, 1955. A 90-hour course] Programma predmeta "Tekhnicheskoe  
normirovanie i smety" k uchebnomu planu spetsial'nosti tekhnikumov  
"Sanitarno-tehnicheskie ustroistva zdenii," utverzhdennomu Mini-  
sterstvom vysshego obrazovaniia SSSR, 14 aprelia 1955 g. Ob'em  
programmy - 90 chasov. Moskva, Uchebno-metodicheskii kabinet, 1958.  
9 p.

(MIRA 12:2)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Otdel  
uchebnykh zavedeniy upravleniya kadrov.  
(Construction industry)

SLOBODCHIKOV, G.T., inzh.; SPIRIDOVICH, N.F., inzh.; GOVOROV, V.P., inzh.,  
nauchnyy red.; YEL'CHUKOV, V.S., red.; BERKUT, I.V., otv.za vypusk

[Program for the subject "Water supply and sewer systems" in the  
technical school major "Sanitary installations in buildings,"  
approved by the Ministry of Higher Education of the U.S.S.R.,  
April 14, 1955. A 105-hour course] Programma predmeta "Vodo-  
snabzhenie i kanalizatsiya" k uchebnomu planu spetsial'nosti  
tekhnikumov "Sanitarno-tehnicheskie ustroistva zdanii," utverzhden-  
nomu Ministerstvom vysshego obrazovaniia SSSR, 14 apreliia 1955 g.  
Ob"em programmy - 105 chasov. Moskva, Uchebno-metodicheskii kabinet,  
1958. 9 p. (MIRA 12:2)

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(Water-supply engineering)

LAVRCV, D.P., inzh.; GOVOROV, V.P., inzh., nauchnyy red.; YUL'CHUKOV, V.S.,  
red.; BERKUT, I.V., otvetstv. za vypusk

[Program for the subject "Safety engineering and fire prevention" in  
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14, 1955. A 45-hour course] Programma predmeta "Tekhnika bezopasnosti  
i protivopozharnaiia tekhnika" k uchebnomu planu spetsial'nosti tekhnici-  
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Ministerstvom vysшego obrazovaniia SSSR, 14 apreliia 1955 g. Ob'em  
programmy - 45 chasov. Moskva, Uchebno-metodicheskii kabinet, 1958.  
10 p.  
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uchebnykh zavedeniy upravleniya kadrov.  
(Industrial accidents) (Fire prevention)

SOV/136-59-2-9/24

AUTHOR: Govorov, V.P.

TITLE: Hydrometallurgical Treatment of Copper-Nickel Converter Mattes (O gidrometallurgicheskoy pererabotke medno-nikelevykh shteynov)

PERIODICAL: Tsvetnyye Metally, 1959, Nr 2, pp 41-46 (USSR)

ABSTRACT: The author has developed a method for sulphuric acid leaching of copper-nickel mattes without autoclaves. His work started with the investigation of the phase composition of various industrial mattes, synthetic alloys similar to them in composition, the compound  $(FeS)_2Ni_3S_2$  and two of its alloys. X-ray analysis was carried out by V.N.Smagunov of Irgiredmet; chemical by Z.I.Dzyuba (Irgiredmet) and N.Teslenko, A.Peretolchina and others of the Noril'skiy Kombinat (Noril'sk Combine). Microstructures were also studied. The main sulphide phases in solidified mattes were cuprous sulphide and pentlandite-type nickel sulphides (also  $Ni_3S_2$  and pyrrhotine-type iron sulphide in rich mattes). Magnetite, hematite and a ferro-nickel-like metallic phase were also found. The general absence of acid-insoluble iron and

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SOV/136-59-2-9/24

### Hydrometallurgical Treatment of Copper-Nickel Converter Mattes

nickel compounds made a hydrometallurgical selective-solution flowsheet a possibility. The use of sulphuric acid for this purpose was described by F. Lez (Ref 1) and the precipitation of the elements is theoretically possible has figured in patents (Ref 4 and 5) and is used in analysis. The author describes test experiments with actual mattes. A counter-current process with an acid solution containing 100 to 200 g/litre of monohydrate was used for selective solution, matte samples being ground to 0.104 to 0.074 mm. The compositions of the industrial and synthetic mattes used are shown. The former were found unsuitable for hydrometallurgical treatment but suitable products could be obtained by controlling composition, mainly magnetite content. Special determination of rates of solution of iron from intermediate precipitates and of nickel precipitation from the solutions formed (according to the flowsheet shown in Fig 1) were therefore carried out. The results are shown as % Fe in precipitate and Ni in solution (g/litre) in Fig 2 (interrupted and continuous lines respectively) as functions of time for various mattes.

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SOV/136-59-2-5/24

Hydrometallurgical Treatment of Copper-Nickel Converter Mattes

Both functions were found to depend on the phase composition of the matte. From experiments with one matte approximate material balances for copper, iron, sulphur, nickel, cobalt, platinum, palladium, gold, rhodium and selenium were compiled (table 3) for the hydrometallurgical treatment used. The author concludes that he has established the feasibility of separating iron from the mattes in the form of a neutral ferrous-sulphate solution free from non-ferrous and accompanying metals and of nickel (together with cobalt and residual iron) either as sulphate solution or as chloride solution free from copper and accompanying metals, which remain in the sulphide concentrate. Good results can only be obtained with mattes having an iron to nickel ratio of at least 3.5 to 1 and less than 29 and 2% of sulphur and magnetite respectively. There are 2 figures, 3 tables and 5 Soviet references.

Card 3/3

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Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialov,  
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1. Nauchno-tehnicheskoye obshchestvo stroyatel'noy industrii SSSR.  
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\* BOVICKI, J.

Effect of heat-treatment on the magnetic properties of generator sheets containing about 2.5% silicon. M. Mankiewicz and J. Groscik (Inst. Met. Zelazna Chwice, Poland). *Prace Inst. Met. Zelazna Chwice*, 9, 125-35 (1957) (English summary).—It was found that the possibility of improving the magnetic properties of hot-rolled steel sheets contg. about 2.5% Si and used for elec. generators was limited. Such improvements can be made only on a lab. scale by heat-treating of the steel sheets in the atm. of dry H<sub>2</sub> (or in vacuum) thus removing from steel the detrimental impurities; such a method, however, is not practical on an industrial scale. The investigations were carried out on sheets obtained from open-hearth melts of Si steel contg. from 0 to 4% of Si; the main interest, however, was directed towards steels with 2.5% Si. It was found that the largest specific losses take place when the annealing is carried out between 600 and 900° and hi less than 30 hrn. Annealing of sheets at 1100° results already in a small increase in specific losses and also in decrease of induction in strong magnetic fields. In general, the specific losses are smaller when the sheets are etched before annealing. The worsening of properties, especially at high temp., is caused primarily by the detrimental surface reactions and especially by the diffusion of O to the metal. The scale which is formed on the surface of the metal causes decarbonizing of the rest of the steel. However, the presence of 2.5% of Si counteracts the decarbonization in-as-much Si prevents the diffusion of C in steel. M. and G. applied also finishing compressions to the annealed (as above) steel sheets and found that a reduction in size up to 10% followed by a heat-treatment at temp. b/w 750 and 1100° does not result in a decrease of specific losses.

F. J. Hendry

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